Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Proposed~~Final~~

MAJOR FACILITY REVIEW PERMIT

Issued To:

Owens-Brockway Glass Container Inc.
Facility # A0030

Facility Address:
3600 Alameda Avenue
Oakland, CA 94601

Mailing Address:
One Seagate
Toledo, Ohio 43666

Responsible Official	**Facility Contact**
Jerry D. Jamar, Plant Manager	Ken Tanner
510-436-2056	419-247-7519

Type of Facility: Glass Manufacturing Plant
Primary SIC: 3221
Product: Glass

BAAQMD Permit Division Contact:
Gregory Solomon

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

_____ _____

Ellen Garvey, Executive Officer/Air Pollution Control Officer — Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on ~~10/7/98~~5/17/00);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~10/7/98~~5/17/00);

SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on ~~10/7/98~~5/17/00);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on ~~10/7/98~~5/17/00); and

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 2/25/99).

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 10/20/99).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on January 5, 2000 and expires on December 31, 2004. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 30th, 2004, and no earlier than December 31, 2004. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** December 31, 2004**.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for

cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

I. Standard Conditions

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

I. Standard Conditions

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be January 5, 2000 to June 30, 2000. The report shall be submitted by July 31, 2000. Subsequent reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be January 1st to December 31st. The certification shall be submitted by January 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

I. Standard Conditions

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)

2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)

3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

II. EQUIPMENT LIST

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Maximum Capacity
S-10	Glass Melting Furnace "C" Natural Gas Fired	External Natural Gas Combustion, Non-Premix	NA	405 tons/day, 51 mm btu/hr max
S-11	Glass Melting Furnace "D" Natural Gas Fired	External Natural Gas Combustion, Non-Premix	NA	~~201~~ 357 tons/day, 53 mm btu/hr max
S-12	Glass Melting Furnace "E" Natural Gas Fired	External Natural Gas Combustion, Non-Premix	NA	~~177~~ 314 tons/day, 44 mm btu/hr max
S-24	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-25	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-27	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-29	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-30	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-31	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-32	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-33	Hot End Bottle Surface Treatment	Stannic chloride	NA	1.7 lb/hr max
S-39	Raw material unloading station	Not available	NA	~~1.7 lb/hr max~~60 tph max
S-41	Batch Mixer A	T.L. Smith	Serial #272	50 hp, 55 tons per hour

II. Equipment List

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-42	Batch mixer B	T.L. Johnson	Serial #711	60 hp, 55 tons per hour
S-43	Cullet crusher	Kue-Ken, Jaw Type	Model #56	110 tons/hr max
S-44	Sand elevator	Batching, Gravel/Sand	NA	NA
S-48	Lime storage bins	Lime	NA	NA
S-50	Soda ash storage bins	Material storage	NA	4 tons/hr max
S-52	Sand storage bins	Gravel / sand	NA	NA
S-56	Cullet storage bins	Glass	NA	NA
S-57	Ecology cullet elevator	Standard metal	NA	100 tons/hr max
S-58	Salt cake storage area	Salt cake	NA	20 tons/hr max
S-63	Mold repair shop	Solvent cleaning	NA	385 gals/yr net solvent usage
S-67	Mold repair coating oven (electric)	NA	NA	0.7 tons/hr max
S-75	Forming machines	IS-8E Double Gob	NA	0.0004 thousand gallons per hour
S-76	Forming machines	IS-8E Double Gob	NA	0.4 gallons lube oil per hour
S-77	Forming machines	IS-6F Double Gob	NA	0.4 gallons lube oil per hour
S-79	Forming machines	IS-8E Double Gob	NA	0.4 gallons lube oil per hour
S-80	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-81	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-83	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-84	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-97	Baler	Miscellaneous Chemicals	NA	2 tons/hr max

II. Equipment List

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Pulseflo Fabric Filter, Tin System	S-24, S-25, S-27, S-29, S-30, S-31, S-32, S-33	6-310, 6-301,		0.15 gr/dscf
A-2	Fabric Filter, Batch House	S-41,S-42, S-43, S-44 S-48, S-50, S-52, S-56, S-58	6-310, 6-301		0.15 gr/dscf
A-3	Corrugated Cyclone	S-97	6-310, 6-301		0.15 gr/dscf
A-9	ESP	S-11, S-12	6-310, 6-301		0.15 gr/dscf

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (~~10/7/98~~5/17/00)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board

2 Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (~~10/7/98~~5/17/00)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)**		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**	Y	
BAAQMD Regulation 11, Rule 1	**Lead (3/17/82)**		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
Condition #11930			
part 1	Throughput limit (basis: emissions banking)	Y	
part 2	Annual NOx Emission Limit (basis: emissions banking)	Y	
part 3	Continuous emission monitoring-NOx (basis: 1-521, 2-6-501)	Y	
part 4a	Recordkeeping (basis: emissions banking)	Y	
part 4c	Recordkeeping procedure (basis: emissions banking)	Y	
part 5	Annual source test for lead (basis: 2-6-501)	Y	
part 6	Annual source test for SO2 (basis: 2-6-501)	Y	
part 7	Annual source test for particulate (basis: 2-6-501)	Y	
part 8	Continuous opacity monitors (basis: 6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (~~10/7/98~~5/17/00)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)**		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Regulation 11, Rule 1	**Lead (3/17/82)**		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**	Y	
Condition #11930			
Part 1	Throughput limit (basis: emissions banking)	Y	
part 4b	Records of glass pulled (basis: emissions banking)	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 4c	Recordkeeping procedure (basis: emissions banking)	Y	
part 5	Annual source test for lead (basis: 2-6-501)	Y	
part 6	Annual source test for SO2 (basis: 2-6-501)	Y	
part 7	Annual source test for particulate (basis: 2-6-501)	Y	
part 8	Continuous opacity monitors (basis: 6-501)	Y	
part 9	Electrostatic precipitator (basis: Regulation 2-1-301)	N	

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (~~10/7/98~~5/17/00)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)**		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Regulation 11, Rule 1	**Lead (3/17/82)**		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
BAAQMD Manual of Procedures, Volume V	**Continuous Emission Monitoring Policy and Procedures (1/20/82)**	Y	
Condition #11931			
Part 1	Throughput limit (basis: emissions banking)	Y	
Part 2	Recordkeeping (basis: emissions banking)	Y	
part 2a	Recordkeeping procedure (basis: emissions banking)	Y	
part 3	Annual source test for lead (basis: 2-6-501)	Y	
part 4	Annual source test for SO2 (basis: 2-6-501)	Y	
part 5	Annual source test for particulate (basis: 2-6-501)	Y	
part 6	Continuous opacity monitors (basis: 6-501)	Y	
part 7	Electrostatic precipitator (basis: Regulation 2-1-301)	N	

IV. Source-specific Applicable Requirements

Table IV - D
Source-specific Applicable Requirements
S-24, S-25, S-27, S-29, S-30, S-31, S-32, & S-33,
HOT END BOTTLE SURFACE TREATMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
Condition #8395			
part 1	Particulate Weight Limitation (basis: Reg. 6-310)	Y	
part 2	Ammonia Emission Limit (basis: Reg. 7-303)	N	
part 3	Abatement Requirement (basis: cumulative increase)	Y	
part 4	Pressure Drop Monitoring Requirement (basis: Regulation 2-6-501)	Y	
part 5	Recordkeeping (basis: Regulation 2-6-501)	Y	
part 6	Annual Baghouse Inspection (basis: Regulation 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S-39, RAW MATERIAL UNLOADING STATION,
S-57, ECOLOGY CULLET ELEVATOR
S-75 to S-77, S-79 to S-81,, FORMING MACHINES
S-83 to S-84, FORMING MACHINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
Condition #15855			
Part 1	Source Test for Regulation 6 (basis: Regulation 2-6-501)	Y	
Part 2	Weekly Visible Emissions Monitoring (basis: Regulation 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-41 & 42, BATCH MIXERS A & B, S-43, CULLET CRUSHER
S-44, SAND ELEVATOR, S-48, LIME STORAGE BINS
S-50, SODA ASH STORAGE BINS
S-52, SAND STORAGE BINS, S-56, CULLET STORAGE BINS
S-58, SALT CAKE STORAGE AREA

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
Condition #16591			
part 1	Abatement Requirement (basis: cumulative increase)	Y	
part 2	Pressure Drop Monitoring Requirement (basis: Regulation 2-6-501)	Y	
part 3	Recordkeeping (basis: Regulation 2-6-501)	Y	
part 4	Annual Baghouse Inspection (basis: Regulation 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - G
Source-specific Applicable Requirements
S-63, MOLD REPAIR SHOP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8-16	**ORGANIC COMPOUNDS-SOLVENT CLEANING OPERATIONS**		
8-16-501.2	Solvent Records	Y	

Table IV - H
Source-specific Applicable Requirements
S-67, MOLD REPAIR COATING OVEN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8-2	Organic Compounds-Miscellaneous Operations		
8-2-301	Emissions limit	Y	
Condition #15855			
Part 2	Weekly Visible Emissions Monitoring (basis: Regulation 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-97 BALER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
Condition #16592			
part 1	Abatement Requirement (basis: cumulative increase)	Y	
part 2	Source Test Requirement (basis: Regulation 2-6-501)	Y	
part 3	Visible Emissions Monitoring Requirement (basis: Regulation 2-6-501)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

CONDITION #8395

Plant 30, Sources S-24, S-25, S-27, S-29, S-30, S-31, S-32, and S-33, Hot End Bottle Surface Treatment

1. Particulate emissions from the baghouse shall not exceed 0.15 grains per dry standard cubic foot in accordance with Regulation 6-310. (basis: Regulation 6-310)

*2. The concentration of ammonia in the airstream from the baghouse shall not exceed 5000 ppm per Regulation 7-303. (basis: Regulation 7-303)

3. Particulate matter emissions from sources S-24, S-25, S-27, S-29, S-30, S-31, S-32, and S-33, Hot End Bottle Surface Treatment shall be routed under negative pressure to A-1 for abatement at all times that any Hot End Bottle Surface Treatment source is operated and/or emits particulate matter emissions. (basis: cumulative increase)

4. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across the A-1 Baghouse. Within 9 months of final issuance of the Major Facility Review permit, the permit holder shall determine the proper operating range. This range shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)

5. After installation of the manometer or device, pressure drop across A-1 shall be monitored at all times that the Hot End Bottle Surface Treatment sources are operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and the baghouse is in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection.

VI. Permit Conditions

(basis: Regulation 2-6-501)

CONDITION #8395

Plant 30, Sources S-24, S-25, S-27, S-29, S-30, S-31, S-32, and S-33, Hot End Bottle Surface Treatment

6. The A-1 Baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

CONDITION #11930

Plant 30, Sources S-10 and S-11, Glass Melting Furnaces

1. Total glass pulled at each S-10 and S-11 shall each not exceed 125,000 tons in any consecutive twelve-month period. (basis: emissions banking)

2. NOx Emissions from S-10 shall not exceed 212.7 tons in any consecutive 12-month period. (basis: legal agreement)

3. ~~Within 6 months of final issuance of the Major Facility Review permit~~By ~~October~~ December 1, 2000, the owner/operator of S-10 shall have installed and be operate~~ing~~ a District-approved continuous emissions monitor (CEM) to measure the NOx emissions from S-10, a District-approved flowmeter to measure the exhaust gas flowrate from S-10, a District-approved method of measuring the tons of glass pulled, and a data logger and recorder. All of the above monitoring equipment shall be pre-approved by the District Source Test Manager. The monitoring shall demonstrate compliance with both part #2 of this condition and Regulation 9-12-301. (basis: 1-521, 2-6-501)

4a. Plant shall maintain ~~monthly~~ daily records of the amount of glass pulled at S-10, all source test data, CEM data, exhaust gas flowrate date, mass emissions per ton using 3 hour averaging, and total consecutive 12 month mass emissions. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)

4b. Plant shall maintain ~~monthly~~ daily records of the amount of glass pulled at S-11. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)

VI. Permit Conditions

VI. Permit Conditions

CONDITION #11930

Plant 30, Sources S-10 and S-11, Glass Melting Furnaces

4c. The owner/operator of S-10 and S-11 shall maintain a district approved daily log of the glass pull-rate (in tons per calendar day) at each S-10 and S-11. The glass pull-rate shall be determined by the production rate (containers/minute), as reported on the computer control log at each setting, multiplied by the container specification weight (pounds) multiplied by the minutes of operation during each calendar day and then divided by 2000 pounds/ton. Any changes in either the container/container weight and production rate shall be clearly identified in the log. The measurement error shall not exceed 10% of measurement. This log shall be maintained on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: emissions banking)

5. The owner/operator of S-10 and S-11 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulation 11-1-301. The results of this test shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

6. The owner/operator of S-10 and S-11 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulations 9-1-302. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

7. The owner/operator of S-10 and S-11 shall conduct an annual District-approved source test at each furnace in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

8. The owner/operator of S-10 and S-11 shall maintain and operate continuous opacity monitors in accordance with the Manual of Procedures, Volume V. This condition does not apply to S-11 during periods of maintenance of A-9, not to exceed 144 hours in any consecutive 12-month period. (basis: Regulation 6-501)

*9. S-11 shall be abated, at all times of operation by the properly maintained and properly operated A-9 Electrostatic Precipitator. This condition does not apply during periods of maintenance of A-9 not to exceed 144 hours in any consecutive 12-month period. (basis: ~~Proposition 65~~Regulation 2-1-301)

VI. Permit Conditions

CONDITION #11931
Plant 30, Source 12, Glass Melting Furnace

1) Total glass pulled at this S-12 furnace shall not exceed 110,000 tons in any consecutive twelve-month period. (basis: emissions banking)

2) Plant shall maintain ~~monthly~~ daily records of the amount of glass pulled at this furnace. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)

2a. The owner/operator of S-12 shall maintain a district approved daily log of the glass pull-rate (in tons per calendar day) at S-12. The glass pull-rate shall be determined by the production rate (containers/minute), as reported on the computer control log at each setting, multiplied by the container specification weight (pounds) multiplied by the minutes of operation during each calendar day and then divided by 2000 pounds/ton. Any changes in either the container/container weight and production rate shall be clearly identified in the log. The measurement error shall not exceed 10% of measurement. This log shall be maintained on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: emissions banking)

3. The owner/operator of S-12 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulation 11-1-301. The results of this test shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

4. The owner/operator of S-12 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulations 9-1-302. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

5. The owner/operator of S-12 shall conduct an annual District-approved source test at each furnace in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

6. The owner/operator of S-12 shall maintain and operate continuous opacity monitors in accordance with the Manual of Procedures, Volume V. (basis: Regulation 6-501)

VI. Permit Conditions

*7. S-12 shall be abated, at all times of operation by the properly maintained and properly operated A-9 Electrostatic Precipitator. . This condition does not apply during periods of maintenance of A-9 not to exceed 144 hours in any consecutive 12-month period. -(basis: ~~Proposition 65~~Regulation 2-1-301)

CONDITION #15855

S-39, Ray Material Unloading Station; S-57, Ecology Cullet Elevator; S-67, Mold Repair Coating Oven; S-75, S-76, S-77, S-79, S-80, S-81, S-83, S-84, Forming Machines

1. The owner/operator of S-39, S-57, S-75, S-76, S-77, S-79, S-80, S-81, S-83, and S-84 shall conduct an annual District-approved source test in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

2. The owner/operator of S-39, S-57, S-67, S-75, S-76, S-77, S-79, S-80, S-81, S-83, and S-84 shall conduct weekly visible emissions monitoring in order to determine compliance with Regulations 6-301 using either District method or EPA Method 9, and shall not exceed a Ringelmann 1.0. Weekly records of visible emissions data shall be retained on site for at least five years from the date of entry and be made available to District staff upon request. (basis: Regulation 2-6-501)

Condition #16591

Sources S-41, S-42, Batch Mixers; S-43, Cullet Crusher; S-44, Sand Elevator; S-48, Lime Storage Bins; S-50, Soda Ash Storage Bins; S-52, Sand Storage Bins; S-56; Cullet Storage Bins; and S-58, Salt Cake Storage Area.

1. Particulate matter emissions from sources S-41, S-42, S43, S-44, S-48, S-50, S-52, S-56, and S-58 shall be routed under negative pressure to A-2 for abatement at all times that the above sources are operated and/or emit particulate matter emissions. (basis: cumulative increase)

2. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across the A-2 Baghouse. Within 9 months of

Condition #16591

VI. Permit Conditions

Sources S-41, S-42, Batch Mixers; S-43, Cullet Crusher; S-44, Sand Elevator; S-48, Lime Storage Bins; S-50, Soda Ash Storage Bins; S-52, Sand Storage Bins; S-56; Cullet Storage Bins; and S-58, Salt Cake Storage Area.

final issuance of the Major Facility Review permit, the permit holder shall determine the proper operating range. This range shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)

3. After installation, pressure drop across A-2 shall be monitored at all times that the above sources are operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and that the baghouse is in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

4. The A-1 Baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition #16592
Source S-97; Baler

1. Particulate matter emissions from source S-97, Baler, shall be routed under negative pressure to A-3, Cyclone, for abatement at all times that the baler is operated and/or emits particulate matter emissions. (basis: cumulative increase)

2. The owner/operator of S-97, Baler, shall conduct an annual District-approved source test in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)

3. The owner/operator of S-97, Baler, shall conduct weekly visible emissions monitoring in order to determine compliance with Regulations 6-301 using either District method or EPA Method 9, and shall not exceed a Ringelmann 1.0. Weekly records of visible emissions data shall be retained on site for at least five years from the date of entry and be made available to District staff upon request. (basis: Regulation 2-6-501)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD 6-501 BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD Cond # 11930, part 3	C	CEM
NOx	BAAQMD Cond # 11930, part 2	Y		212.7 ton NOx in any consecutive 12 month period	BAAQMD Cond # 11930, part 3	C	CEM
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond # 11930, part 6	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond # 11930, part 5	P/A	Annual Source Test
	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/cu.m., 24 hr. avg.		N	
Glass Production	BAAQMD Cond #11930, part 1	Y		125,000 ton/yr	BAAQMD Cond #11930, part 4a and 4c	P/D~~M~~	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S 11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404	P/A	Annual Source Test
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond # 11930, part 6	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond # 11930, part 5	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S 11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Lead	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/cu.m., 24 hr. avg.		N	
Glass Production	BAAQMD Cond #11930, part 1	Y		125,000 ton/yr	BAAQMD Cond #11930, part 4b and 4c	P/D~~M~~	Record keeping

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S 12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD 6-501 BAAQMD Cond # 11931, part 6	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501 BAAQMD Cond # 11931, part 6	C	Continuous Opacity Monitor
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 11931, part 5	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S 12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond # 11930, part 5	P/A	Annual Source Test
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404	P/A	Annual Source Test
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond # 11931, part 4	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond # 11930, part 3	P/A	Annual Source Test
	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/cu.m., 24 hr. avg.		N	
Glass Production	BAAQMD Cond #11931, part 1	Y		110,000 ton/yr	BAAQMD Cond #11931, part 2	P/D~~M~~	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-24, S-25, S-27, S-29, S-30, S-31, S-32, & S-33, HOT END BOTTLE SURFACE TREATMENT

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond #8395, parts 4 and 5	P/W	Pressure Drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond #8395, part 6	P/A	Baghouse inspection
TSP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond #8395, parts 4 and 5	P/W	Pressure Drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond #8395, part 6	P/A	Baghouse inspection
	BAAQMD Cond #8395 part 2	Y		0.15 gr/dscf	BAAQMD Cond #8395, parts 4 and 5	P/W	Pressure Drop monitoring
	BAAQMD Cond #8395, part 1	Y		0.15 gr/dscf	BAAQMD Cond #8395, part 6	P/A	Baghouse inspection
NH3	BAAQMD Cond #8395 part 3	N		5000 ppm		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-39, RAW MATERIAL UNLOADING STATION, S-57, ECOLOGY CULLET ELEVATOR, S-75 to S-77, S-79 to S-81, FORMING MACHINES, S-83 to S-84, FORMING MACHINES

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond # 15855 part 2	P/W	Visible emission monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 15855 part 1	P/A	Annual Source Test
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond # 15855 part 1	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-41 & 42, BATCH MIXERS A & B, S-43, CULLET CRUSHER,
S-44, SAND ELEVATOR, S-48, LIME STORAGE BINS,
S-50, SODA ASH STORAGE BINS, S-52, SAND STORAGE BINS,
S-56, CULLET STORAGE BINS, ,
S-58, SALT CAKE STORAGE AREA,

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond # 16591, parts 2, and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond # 16591, part 4	P/A	Annual inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 16591, parts 2 and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 16591, part 4	P/A	Annual inspection
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond # 16591, parts 2 and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond # 16591, part 4	P/A	Annual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S-63, MOLD REPAIR SHOP

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	none	Y		none	BAAQMD 8-16-501.2	P/Q	Record Keeping

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-67, MOLD REPAIR COATING OVEN

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Cond # 15855 part 2	P/W	Visible emission monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf		N	
VOC	BAAQM D 8-2-301	Y		15 pounds per day and 300 ppm carbon		N	

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S-97 BALER

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Cond # 16592, part 2	P/W	Visible emission monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 16592, part 3	P/A	Source test
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond # 16592, part 3	P/A	Source test

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15 Particulate Sampling
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-12-301	Emission Limit, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or EPA Method 7E, 40 CFR Part 60 Appendix A
BAAQMD 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead
SIP 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] are not applicable to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited.

Table IX A - 1
Permit Shield for Non-applicable Requirements
S-10, 11, 12, GLASS MELTING FURNACES

Citation	Title or Description (Reason not applicable)
40 CFR 60, Subpart CC	Standards of Performance for Glass Manufacturing Plants (Rebricking of the furnace, which occurs every several years, does not meet the definition of reconstruction under 40 CFR 60.15.)

X. GLOSSARY

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CEQA
California Environmental Quality Act

CFR
The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO
Carbon Monoxide

Cumulative Increase
The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District
The Bay Area Air Quality Management District

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District Regulations.

Federally Enforceable, FE
All limitations and conditions which are enforceable by the Administrator of the EPA including

those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part

X. Glossary

52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

HAP
Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility
A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP
The District's Manual of Procedures.

NAAQS
National Ambient Air Quality Standards.

NESHAPs
National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC
Non-methane Hydrocarbons.

NOx
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment".

X. Glossary

Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC
Precursor Organic Compounds.

PM
Total Particulate Matter.

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

PSD
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP
State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2
Sulfur dioxide.

Title V
Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

X. Glossary

VOC
Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XI. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments